Intrinsically safe mobile phones from ecom instruments

Hard-line Communication in Hazardous Areas: ecom instruments present the latest mobile phone in the range of mobile communication solutions designed for use in extreme conditions

Anything but ordinary

A three-year „No-Questions-Asked“ warranty for all new ecom mobile phones guarantees absolute cost certainty and shows our confidence in terms of quality and reliability of the product.

Guaranteed cost certainty

We don‘t ask, we act! For a full three years, ecom will guarantee free repairs including all spare and worn parts (except batteries) with a five-day turnaround.

The new top-of-the-range model Ex-Handy 08 is designed for Zone 1 and is ecom instruments' first UMTS-enabled mobile-phone. The Ex-Handy 08 (see page 4) provides high performance capability and guarantees software compatibility as well as network compatibility.

Select your phone according to your requirements

Depending on the configuration, the Quadband cell-phone combines many more features than just making and receiving calls, as there is also:

- a personal alarm signal-system
- a camera with video function
- an LED Flashlight and
- walkie-talkie communication (push-to-talk).

Thanks to the integrated antenna the Ex-Handy displays excellent reception and above average network coverage. The Ex-Handy 08 currently is the only Ex-device worldwide with proven network and software compatibility.

The high-resolution display is protected by rugged and scratch-resistant Gorilla Glass. To ensure smooth functionality of the device, different battery capacities with separate charging options and spare batteries are available.

All connections are designed so that they remain tight and reduce risk, should the closing tab be unintentionally left open.

ecom´s versatile mobile-phones are specially designed for use in hazardous areas of Zone 1/21 division 1 as well as Zone 2/22, division 2 and are approved worldwide. The Ex-Handy is very well suited for international use. For use in Zone 2/22, division 2 ecom provides the new Ex-HSPA 08 with near field communication.

To help find your ideal mobile phone solution, head to www.intrinsically-safe-mobile.com and use our tailored product finder.

With great trust in our product-line of mobile communication solutions, ecom instruments offer clients a three year No-Questions-Asked-Warranty: ensuring a high degree of cost certainty. ecom guarantees a service process within five working days including spare and worn parts (except batteries) and inadvertent damage with no “ifs or buts”. The accessories catalogue as well as ecom's professional support will be available for succeeding product models, including spare parts, within three years from discontinuation of the product family.

Zone 1 Division 1

Zone 2 Division 2

NEW

PTT

3G

IIIC

NFC

LWP

Black

Yellow

Ex-Handy 08

NEW

Ex-HSPA 08

ATEX IECEx NEC

Ex - Handy 08

Ex - HSPA 08

PCEC GOST-R NEC IECEx ATEX

Ex - Handy 07

ATEX IECEx NEC

Ex - GSM 07

NO QUESTIONS ASKED

Successor

Division 1

Division 2

Ex-Handy 07

OUT OF STOCK

Ex-GSM 07

*The product finder on **www.intrinsically-safe-mobile-phone.com** will recommend the appropriate mobile phone to suit your needs.*

Intrinsically safe mobile phone Ex-HSPA 08 for Zone 2, Division 2

- 3G HSPA/GSM/GPRS/EDGE
- Bluetooth® 3.0 (DUN, OPP, SAP, HSP, HFP, FTP, A2DP, AVRCP, PBAP)
- NFC (Near Field Communication) (optional)
- PUSH-TO-TALK (server-dependent)
- MMS
- Native e-Mail-client (POP3/SMTP, IMAP4)
- WAP 2.0 (XHTML) browser
- Java™ 2.0 ME (CLDC 1.1)
- Integrated Office functionality
- Contact, calendar and message synchronisation with MS® Outlook®
- Free software for data transfer and synchronisation
- A-GPS
- Lone Worker Protection (see page 8)
- Bright LED torch
- Rugged 2 megapixel camera with LED flash and video function (optional)
- Slot for MicroSD cards up to 16 GB
- Scratch and impact-resistant Gorilla-Glass™ display
- Vibration alert

Scope of delivery:

- Ex-HSPA 08 yellow
- Instruction manual
- Rechargeable battery
- Battery charger TCH 07
- USB data cable
- Belt clip
- Screwdriver
- Documentation

Technical data:		
Networks:	Quadband GSM	850 / 900 / 1800 / 1900 MHz
	Triband UMTS/ WCDMA	band 1, band 4, band 8 (EU)
	or	band 1, band 2, band 5 (US)
Data transfer:	GPRS & EDGE class 12	
	HSDPA category 7/8 (7,2 mbits/s)	
	HSUPA category 6 (5,6 mbits/s)	
Display:	5 cm (2 inch) LCD (240 x 320 pixels)	
Power supply:	1,950 mAh Li-Ion	
Talk /standby time:	max. 24 hrs / max. 890 hrs	
Charging time:	approx. 4 hrs	
Dimensions:	126 x 60 x 25 mm (5“ x 2.4“ x 1“) without battery	
Weight (including battery):	approx. 199 g (7.1 oz)	
Ambient temperature Ta:	-20 °C ... +55 °C (-4°F ... +131°F)	
IP protection class::	IP68 (30 minutes, 2 metres under water)	

Ex-data:

ATEX
Ⓔx II 3G Ex ic IIC T4 Gc IP64
Ⓔx II 3D Ex ic IIIC T130°C Dc IP6X

IECEx
Ex ic IIC T4 Gc IP64
Ex ic IIIC T130°C Dc IP6X

NEC & CEC
IS Class I, Division 2, Groups A-D T4
IS Class II, Division 2, Groups E-G T4
IS Class III, Division 2

Intrinsically safe mobile phone lone worker protection

By opting for the Ex-Handy 08/07 LWP, the GSM-07 or the Ex-HSPA LWP (Lone Worker Protection) you are acquiring a reliable and rugged mobile device that ensures the safety of your workers around the world.

- Lone worker protection and mobile phone in one
- Programmable 3D motion sensor for: Inclination alarm, impact alarm, escape alarm, man down alarm
- Programmable dead man's switch
- Alarm button to deliberately trigger alarms
- Technical alarms: E2E check, battery status, connection to GSM or 3G network
- Connection to renowned security centres also possible
- Alert for incoming messages with subsequent read receipt sent to the alarm control unit
- Visualisation of the alarm modes in the display
- Loud audible alarm
- Programmable geo zones
- Communication via SMS and GPRS

Scope of Delivery:

- Ex-Handy with LWP
- Rechargeable battery
- Battery charger TCH 07
- Belt clip
- Safety box or USB data cable
- Documentation
- Screwdriver
- Instruction manual

Our intrinsically safe mobile phones with LWP functionality have been specifically designed for the safety of people working alone. The focus of our development centred around fusing modern technology and personal emergency response devices to create a device that provides the upmost levels of safety. This phone is able to help locate anyone who has suffered an accident and immediately initiate the necessary measures.

This modern mobile phone is equipped with a separate alarm switch that allows help to be called in the event of danger. This lone worker phone is able to be programmed using the integrated 3D motion sensors which trigger for help when a worker is injured or in danger. A pre-alarm function allows employees to deactivate the alert to prevent false alarms.

Alternatively, the phone can also be connected to popular security centres such as Bosch and Securitas, therefore ensuring safety at all times.

An alarm SMS can also be used to inform individuals or entire groups of employees quickly and effectively of any existing hazards and incidents. Continuous attention is drawn to this message via an audible alarm so that employees are made aware of its presence; they are then able to send the required acknowledgment of its receipt.

Safely saving costs

The personal emergency response device comes with all of the necessary alarms and locating functions, thereby helping you to protect your employees.

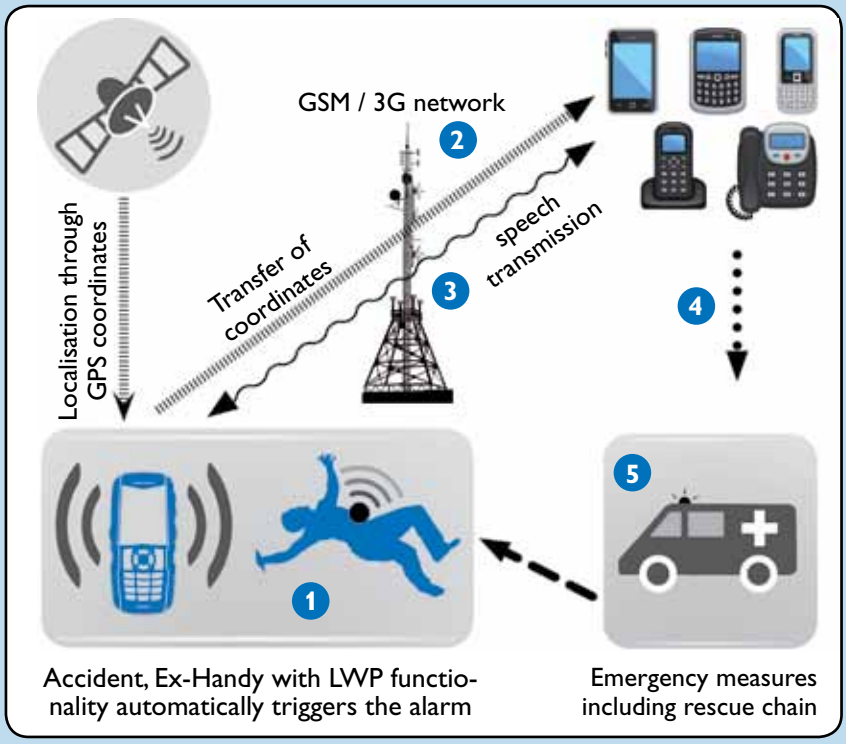
At the same time it also satisfies commercial demands: the device will allow numerous tasks to be carried out by individual workers in the future, as the assistants previously required to help ensure safety are no longer required.
This means that the deployment of a personal emergency response system will help users realise considerable cost savings and enable them to recoup their investment within just a few months.

We've got it – the solution for you!

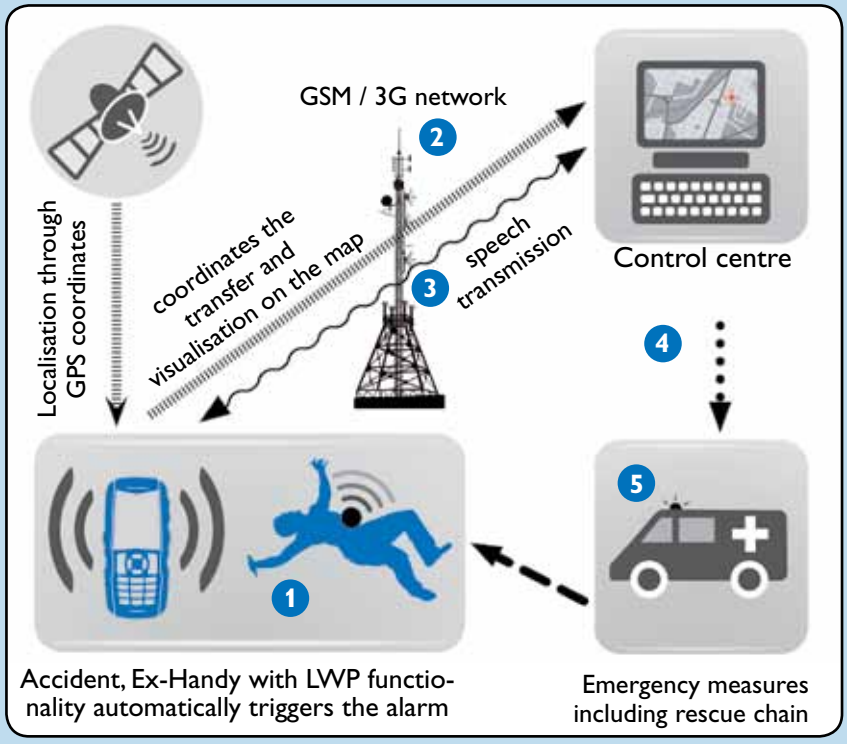
Many tasks are now being carried out by just one person to save costs (e.g. patrolling extensive works premises).
At the same time, however, employers also need to ensure the safety of their employees when they are out on their own.

Basic Mode

1. The lone worker suffers an accident or gets into a dangerous situation. The sensors in ecom's Ex-Handy with LWP functionality register this in accordance with the selected alarm modes.
2. The Ex-Handy with LWP functionality automatically triggers an emergency call. The emergency call can consist of a phone call and / or SMS and it can be sent to up to five different recipients and any type of phone. The SMS contains the GPS coordinates.
3. The Ex-Handy with LWP functionality simultaneously establishes vocal communication with the recipient of the emergency call. This enables the recipient to determine whether the injured employee is still responsive and / or what injuries he/she has suffered.
4. The recipient of the emergency call organises and/or coordinates additional measures and sets the chain of rescue in motion.
5. Rescue of the employee.


GSM / 3G network
Localisation through GPS coordinates
Transfer of coordinates
speech transmission
Accident, Ex-Handy with LWP functionality automatically triggers the alarm
Emergency measures including rescue chain

BASIC MODE


GSM / 3G network
Localisation through GPS coordinates
coordinates the transfer and visualisation on the map
speech transmission
Control centre
Accident, Ex-Handy with LWP functionality automatically triggers the alarm
Emergency measures including rescue chain

Customer-specific System Mode

1. The lone worker suffers an accident or gets into a dangerous situation. The sensors in ecom's Ex-Handy with LWP functionality register this in accordance with the selected alarm modes.
2. The Ex-Handy with LWP functionality then automatically sends an alarm to an internal control centre or an external service provider. In addition to transferring the coordinates, the site of the accident is also visualised on a separate map. This makes it immediately apparent where the employee is located.
3. The Ex-Handy with LWP functionality simultaneously establishes vocal communication with the recipient of the emergency call. This enables the recipient to determine whether the injured employee is still responsive and what has happened.
4. The processing (organisation and coordination) of the emergency call is safeguarded and documented in the System Mode. The rescue of the employee is thereby also guaranteed.
5. Rescue of the employee.

SYSTEM MODE

Accessories for intrinsically safe mobile phones

Zone 1 / Div. 1

Batteries Ex-Handy 08

Ex-BPH 08 SC
(ATEX / IECEx / NEC)

Art.-Nr.: A0050001

Ex-BPH 08 HC
(ATEX / IECEx / NEC)

Art.-Nr.: A0050002

Zone 1 / Div. 1

Batteries Ex-Handy 07

Ex-BPH 07 SC
(ATEX / IECEx)

Art.-Nr.: A0002201

Ex-BPH 07 HC
(ATEX / IECEx)

Art.-Nr.: A0002202

Ex-BPH 07 SC
(NEC / IECEx)

Art.-Nr.: A0002203

Ex-BPH 07 HC
(NEC / IECEx)

Art.-Nr.: A0002204

Zone 2 / Div. 2

Batteries Ex-HSPA 08

Ex-BPH 28
(ATEX / IECEx / NEC)

Art.-Nr.: A0050200

Batteries Ex-GSM 07

Ex-BPG 07
(ATEX)

Art.-Nr.: A0000632

NFC-Battery Ex-HSPA 08

NFC-Battery cover
(ATEX/IECEx)

Art.-Nr.: A0050220

Charger Ex-Handy 08 / Ex-Handy 07 / Ex-HSPA 08 / Ex-GSM 07

TCH 07 EU charger

Art.-Nr.: A0002236

TCH 07 UK charger

Art.-Nr.: A0002237

TCH 07 US charger

Art.-Nr.: A0002238

TCH 07 AU charger

Art.-Nr.: A0002239

TCH 07 CN charger

Art.-Nr.: A0002255

General accessories Zone 1 / Div. 1

SBH 07 Safety box

Art.-Nr.: A0002235

Screwdriver Torx T8

Art.-Nr.: A0002226

General accessories Zone 2 / Div. 2

USB Data cable

Art.-Nr.: A0000638

Screwdriver

Art.-Nr.: A0000632

Zone 1 & 2

CCH 07 car charger

Art.-Nr.: A0002242

= *Applicable in the hazardous area*

Accessories for intrinsically safe mobile phones

Headsets

ComCom Ex

Art.-Nr.: A0000960

Serenity SPC Ex

Art.-Nr.: AS000960

Stereo-Headset
(non-Ex)

Art.-Nr.: A0002241

Vehicle mounts

Phone holder

Art.-Nr.: A0000193

Vehicle mounts

„Gooseneck" vehicle mount, screw installation

Art.-Nr.: A0000191

„360° gooseneck suction mount"

Art.-Nr.: A0000188

Adapter plate for suction mount, 70 mm, self-adhesive

Art.-Nr.: A0000189

Adapter plate for suction mount, 70 mm, screwable

Art.-Nr.: A0000190

Air vent mount

Art.-Nr.: A0000192

Leather cases

LCH 07 leather case with belt clip

Art.-Nr.: A0002225

LHH 07 leather holster

Art.-Nr.: A0002247

Belt loops

Belt loop for belts up to 45 mm wide

Art.-Nr.: A0000128

Belt loop with metal bracket incl. 12mm metal holder Stock

Art.-Nr.: A0000129

Belt loop for belts up to 65 mm wide

Art.-Nr.: A0000132

Belt clips

Belt clip with fixed spring

Art.-Nr.: A0000131

Belt clip incl. 12mm holder

Art.-Nr.: A0000127

12 mm plastic holder for clips and belt loops

Art.-Nr.: A0000130

12 mm metal holder for clips and belt loops

Art.-Nr.: A0000131

BCH 07 Belt clip

Art.-Nr.: 0002240

= Applicable in the hazardous area

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